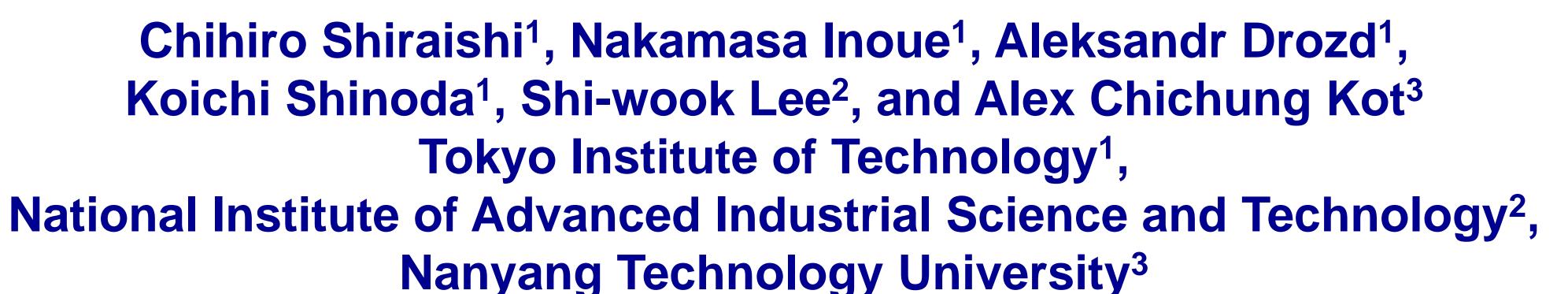
# Activity Detection in Extended Video using Action Tubelets







We propose a system for activity detection which utilizes the Action Tubelet Detector (ACT-detector). By introducing a threshold we can reduce the false alarm rate for videos with sparsely distributed activities.

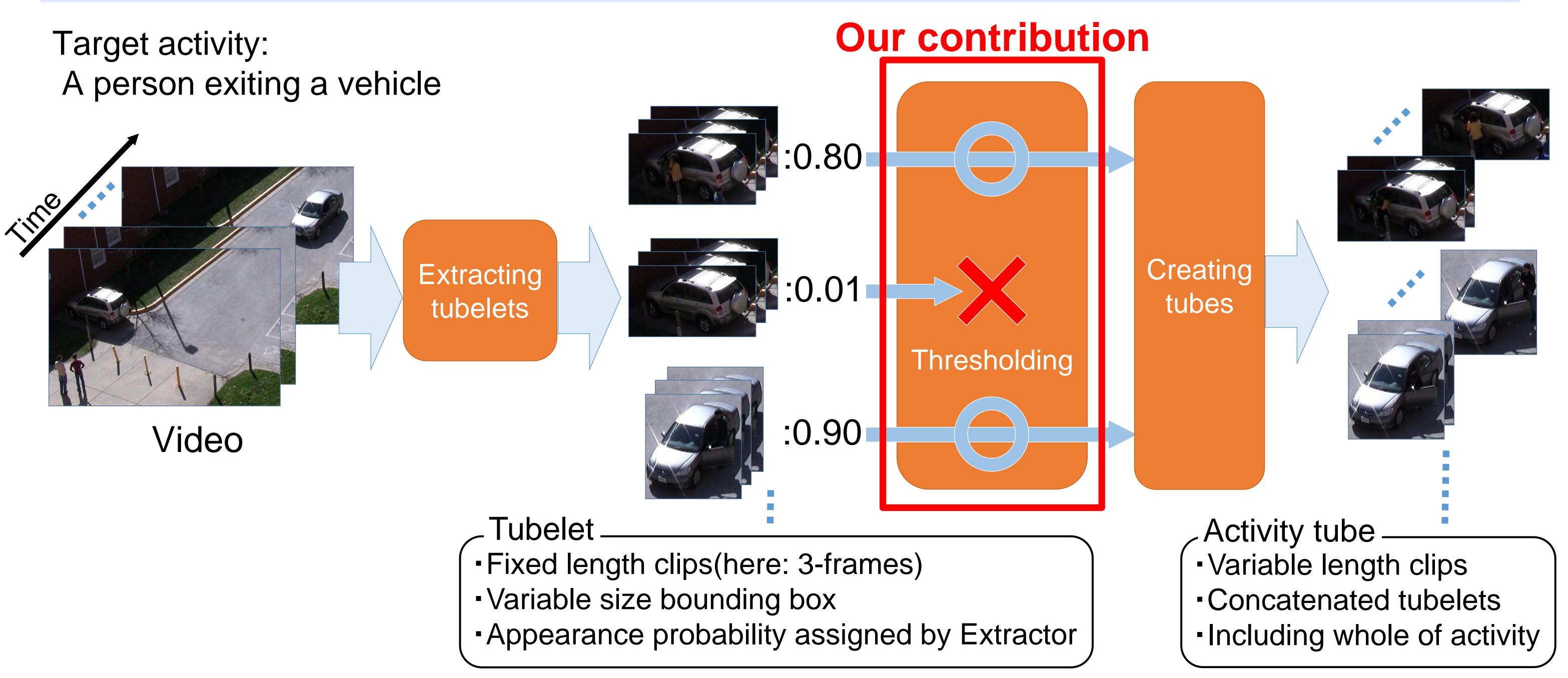
## Task: Activity Detection

This task handles 19 target activities related to "Person" and "Vehicle". Examples: Talking, Opening Trunk, Loading of a Vehicle,...

The system automatically detects and temporally localizes all activities.

One or more people performing a specified movement or interacting with an object or group of objects.

# Method: Activity Tube Detector with Thresholding

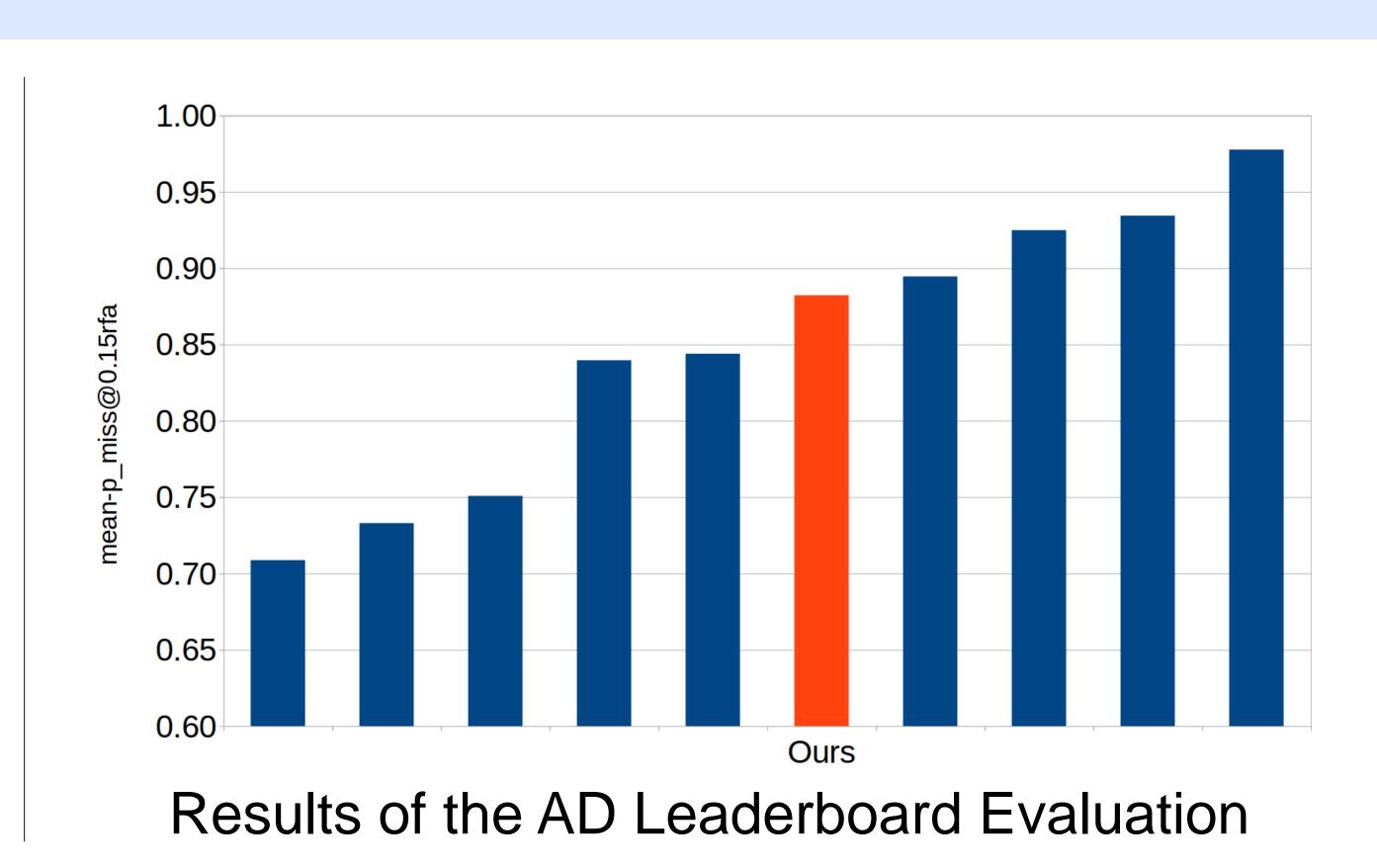


#### Results

mean-p\_miss@0.15rfa \_\_\_\_\_\_
The mean probability of missed detection with a fixed rate of false alarm of 0.15 (1/min).

Comparing to the baseline(original ACT-detector)

Method	Dataset	
	Validation	Test
w/o thresholding (baseline)	0.885	<del></del>
w/ thresholding	0.856	0.882



## Conclusion & Future Work

We participated in the Activities in Extended Video (ActEV) challenge and evaluated our system using ACT-detector. Future work will focus on the detection of the beginning and ending of activities.